

Special Issue

Photocatalysis for Water Purification: Innovations, Challenges, and Practical Applications

Message from the Guest Editors

As global water pollution becomes a growing concern, the need for efficient, cost-effective, and environmentally friendly wastewater treatment methods has never been greater. Photocatalysis, a process that uses the power of light to activate a catalyst to break down pollutants, is emerging as a cutting-edge technology to meet these challenges. It offers a number of advantages, including the use of solar energy, low operating costs, and the ability to degrade a wide range of organic pollutants and pathogens. Despite its potential, the application of photocatalysis to wastewater treatment faces a number of challenges that hinder its large-scale implementation. These include the need for more efficient photocatalysts, limited catalytic activity under visible light, scalability, and the long-term stability of catalysts. Addressing these issues is essential if photocatalysis is to become a viable and sustainable solution for wastewater management.

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Deadline for manuscript submissions

closed (30 May 2025)



Catalysts

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Impact Factor 4.0
CiteScore 7.6



mdpi.com/si/224825

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